	FILE 'USPA	TFULL' ENTERED AT 11:07:55 ON 05 MAR 2007.
		E WHITCOMB JEANNETTE/IN
L1	15	S E3 OR E4
L2	11	S L1 AND (NNRTI OR NONNUCLEOSIDE REVERSE TRANSCRIPTASE INHIBITO
L3	3	S L2 AND (CODON 190/CLM)
L4	50446	S (HIV OR HUMAN IMMUNODEFICIENCY VIRUS)
L5	876	S L4 AND (NNRTI? OR NONNUCLEOSIDE REVERSE TRANSCRIPTASE INHIBIT
L6	8	S L5 AND (CODON 190/CLM OR G190S/CLM OR G190A/CLM)
L7	5	S L6 NOT L3
	FILE 'WPID	S' ENTERED AT 11:11:28 ON 05 MAR 2007
L8	24802	S (HIV OR HUMAN IMMUNODEFICIENCY VIRUS)
L9	72	S L8 AND (NNRTI? OR NONNUCLEOSIDE REVERSE TRANSCRIPTASE INHIBIT
L10	5	S L9 AND (CODON 190 OR G190A OR G190S)
	FILE 'MEDL	INE' ENTERED AT 11:12:39 ON 05 MAR 2007
L11	173746	S (HIV OR HUMAN IMMUNODEFICIENCY VIRUS)
L12	1179	S L11 AND (NNRTI? OR NONNUCLEOSIDE REVERSE TRANSCRIPTASE INHIBI
L13	18	S L12 AND (CODON 190 OR G190A OR G190S)
L14	0	S L13 AND AY<2000
L15	1	S L13 AND PY<2000

A curated public database designed to represent, store, and analyze the divergent forms of data underlying HIV drug resistance.

MOME

GENOTYPE-RX

GENOTYPE-PHENO

GENOTYPE-CLINICAL

KIVOD PROGRAM

### **Detailed RT Phenotype Query**

Mutations

G190A

References

21

Drugs

NVP,DLV,EFV

Isolates

86

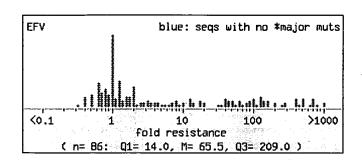
**Assay** 

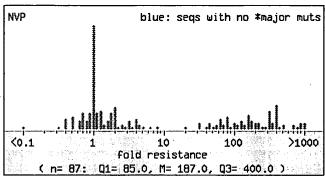
**ANY** 

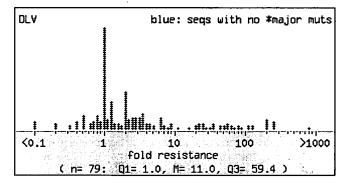
Results

252

WithNoOtherMajorMuts No







Page 1 from Results 1 to Result 100 from Total 252 Phenotype results

Author (yr)	Туре	Isolates	NRTI	NNRTI	Other	Method	Drug	Fold
<u>Fujiwara</u> (1998)	Lab	NL432-G190A		G190A	K102Q, S162C, K277R	Fujiwara-98	DLV	0.2
						Fujiwara-98	NVP	>70.0
<u>Huang</u> (1999)	Lab	WH101E-108I- 190		K101E, V108I, G190A	K102Q, S162C, K277R	Virologic	DLV	>200.0
						Virologic	EFV	270.0
						Virologic	NVP	>680.0
		WH181C_190A		Y181C, G190A	K102Q, S162C, K277R	Virologic	DLV	20.0
						Virologic	EFV	12.0
					Condition to the first	Virologic	NVP	>680.0
Petropoulos (2000)	Lab	NL43-nnrti-10		K101E, G190A	K102Q, S162C, K277R	Virologic	DLV	2.0
					este es ligitario.	Virologic	EFV	123.0
						Virologic	NVP	>500.0
		NL43-nnrti-13		K103N, G190A	K102Q, S162C, K277R	Virologic	DLV	37.0
						Virologic	EFV	213.0
					A-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	Virologic	NVP	>500.0
		NL43-nnrti-8		G190A	K102Q, S162C, K277R	Virologic	DLV	0.5
					See sales.	Virologic	EFV	7.6
					C. C	Virologic	NVP	75.0
<u>Winters</u> (2000)	Clinical	MW-q759	D67N, T69., V75I, F77L, F116Y, Q151M, M184V, K219E	Y181C, G190A	S68G	Winters- PBMC	EFV	>500.0
						Winters- PBMC	NVP	>150.0
		q712	D67~, T69G, K70R, T215F, K219E	A98S, K103N, Y181C, G190AG	K20R, K102E, I135T, Q197K, I202VI,	Winters- PBMC	EFV	42.5

				To a manufacture of the second	R211K, V245K, A272P	ì	and the second s	
						Winters- PBMC	NVP	>150.0
		q759	A62V, D67N, T69~, V75I, F77L, Y115F, F116Y, Q151M, M184V, K219E	K101E, Y181C, G190A	V35L, S68G, K122E, I135T, R172K, E203QE, R211K	Winters- PBMC	EFV	>500.0
				7		Winters- PBMC	NVP	>150.0
Bacheler (2001)	Lab	LB-G190A		G190A	K122E, F214L, A272P, K277R	Virco	DLV	0.2
						Virco	EFV	4.6
						Virco	NVP	41.0
<u>Dunne</u> (2001)	Clinical	ALD-pt812	M41L, E44A, D67N, K70R, V75M, M184V, T215Y	G190A	S3C, E6K, K43E, N54IN, K122E, S162C, E169D, A272P, K277R, V317A	Virologic	DLV	0.0
						Virologic	EFV	1.5
						Virologic	NVP	20.3
Masquelier (2001)	Clinical	BM-19	M41L, T69T_ST, L74VL, L210W, T215Y	K103N, Y181C, G190A	K32RK, R83K, K122E, D123ND, Q207E, R211K, L228H, K238NK	Phenoscript	EFV	>209.0
					1	Phenoscript	NVP	>2894.0
		BM-21		K101QK, Y181C, G190A	V21I, V35T, T39AT, D121H, K122E, K173S,	Phenoscript	EFV	43.5

					Q174R, D177E, I178M, G196E, T200I, Q207N, L228H		The state of the s	
		BM-32	M41L, D67G, T69T_T, K70R, L74V, V118I, M184V, T215F, K219Q	K103N, G190A	E42D, K43Q, K64N, D123E, T139R, I142T, T165I, I178MI, I202VI, F214L, L228H	Phenoscript Phenoscript	NVP EFV	>2894.0 >137.0
	<del></del>	:				Phenoscript	NVP	>1463.0
Beerenwinkel (2002)	Clinical	166-BEC	D67N, K70R, M184V, T215F, K219Q	K103S, V106A, V179I, G190A	V35M, D123E, I135T, S162C, D177X, D186X, T200A, I202X, Q207E, D218E, K238E, Q269X, A272P, T286A	GermanNRC	DLV	56.0
						GermanNRC	j	<del>}</del>
	<b></b>	<u> </u>	<u></u>			GermanNRC	<b>}</b>	133.0
		1771-REC	M41W, E44DE, A62X, D67N, T69D, K70X, L74X, F77LF, V118I, L210W, T215Y, K219Q	A98G, K101G, Y181C, G190A	K20R, V21F, V35M, K43X, I50X, P52X, N54X, P55X, Y56N, N57K, T58I, P59X, V60X, I63X, K64R,	GermanNRC	DLV	9.0

				S68RS, R72X, R78X, L80X, T84I, D86N, W88X, I94K, P95Q, H96X, K102X, K102X, K122E, D123N, E169D, H198X, E203K, H208Y, R211D, L228H			
· .		<u></u>		<u> </u>	GermanNRC	<del>}</del>	122.0
				<u></u>	GermanNRC	<u> </u>	180.0
	1847-FRI	M41L, E44A, D67N, L210W, T215Y, K219E	V106A, G190A	K43E, K49R, R83K, D113ED, D123E, W153M, K154E, G155R, E169D, I178L, G196E, I202MI, R211K, K238*	GermanNRC	DLV	126.0
					GermanNRC	EFV	18.0
					GermanNRC	NVP	200.0
	2070-PAR	M41L, D67X, L74V, M184V, L210W, T215Y, K219E	L234I	K20R, K43E, S48P, I50X, T58I, L80X, K104NK, L109X, D113ED, K122E, K166N, I180V, Y183X, D186X,	GermanNRC	DLV	76.0

			L193FL, R211K, D250X, S251X, N255Y	GermanNRC	EFV	62.0
The second contract of				GermanNRC	NVP	371.0
2095-LAN	M41L, L74I, V118I, M184V, L210W, T215Y, K219N	A98G, K103N, V108I, G190A	V35I, E40F, K43E, S68G, K122E, S162C, R211K, A272P, K277R, T286P, A288P, L289N	GermanNRC	DLV	35.0
				GermanNRC	EFV	40.0
				GermanNRC	NVP	69.0
292-MAT	M41L, E44D, T69D, V75M, V118I, L210W, T215S	A98S, Y181C, G190A	P4S, E6D, K20R, K43N, K102Q, K122D, K166R, T200M, Q207E, R211K, E224D, L228R	GermanNRC	DLV	56.0
				GermanNRC	EFV	51.0
				GermanNRC	NVP	314.0
2942-CODE	D67N, T69X, K70R, L74V, K219Q	K103N, Y181C, G190A	K20R, V35T, T39E, S48T, V60I, D76ED, K102Q, K122E, I135T, N136KN, E138A, K173T, D177E, I178L, T200A,	GermanNRC	DLV	66.0

				K201NK, E204K, Q207A, R211K, F214L, L228H, V245Q, Q269X, A272P			
					GermanNRC	EFV	145.0
					GermanNRC	NVP	219.0
	2944-THA	M41L, D67N, K70X, T215F, K219Q	K103N, Y181C, G190A	V60I, D76N, D86X, K122E, D123K, I135T, N136KN, D177E, T200A, H208QH, D218E	GermanNRC	DLV	91.0
And the state of t					GermanNRC	EFV	65.0
		**************************************	·	4	- <del></del>	·}	359.0
	3349-KAH	M41L, E44D, D67N, L74V, V118I, L210W, T215Y, K219G	K103N, Y181C, G190A, M230I	V35T, K43R, F87LF, K122E, I142V, A158X, I159X, K166R, Q174R, D177G, I180M, Q197P, H198P, E203K, R206K, Q207X, H208Y, R211N, T216X, H221X, Y232X	GermanNRC	DLV	190.0
					GermanNRC	EFV	131.0
	The second secon	rama ne mare <sup>1</sup> e a nas — e a e a e a e a e a e a e a e a e e a e e a e			GermanNRC	NVP	160.0
	3885-TIM	M41L, D67N, T69D,	A98G, G190A	T58I, V60I, K82R,	GermanNRC	DLV	1.0

		T215Y		R83K, L120S, D123ED, F124X, T128X, T131H, I132X, I135V, N137P, E138X, T139I, R143X, Q145HQ, Y146*Y, W153X, S162C, S163RS, E169D, E194D, H208X	GermanNRC	EFV	1.0
					GermanNRC	NVP	56.0
	4463-EIBE	M41L, E44D, D67N, T69D, V118I, L210W, T215Y, K219R	A98G, K103N, G190A	K20R, V35L, D123E, I135T, N137H, Q174X, D177E, I180MI, L193FL, E203D, R206X, H208Y, R211D, K223Q, L228H	GermanNRC		11.0
110000000000000000000000000000000000000	,				GermanNRC	EFV	129.0
					GermanNRC	NVP	159.0
	4936-LAN	M41L, L74I, V118I, M184V, L210W, T215Y, K219N	A98G, K103N, G190A	V35I, E40F, K43E, S68G, K122E, S162C, T200I, R211K, Q269X, A272P, K277G, Q278H,	GermanNRC	DLV	51.0

	į	*	A288P		1	
1				GermanNRC	EFV	47.0
				GermanNRC	NVP	321.0
5016-DRE	M41L, D67N, K70R, L74I, V75T, T215F, K219Q	K101Q, Y181C, G190A	K20R, K122E, R125G, K126X, Y127C, P133X, I135L, E138D, I142V, Y146*Y, P150X, W153G, I159X, K166X, L168X, E169X, P170X, D177E, G196E, T200A, E203D, F214L, K223Q, L228R, Q242L	GermanNRC	DLV	24.0
			GZTZL	GermanNRC	EFV	90.0
				-	NVP	249.0
5075-STA	M41L, E44D, D67N, T69D, V118I, M184V, L210W, T215Y	K101H, G190A	E6K, Q23X, V35X, K43N, V60I, K122E, I142V, I178F, E203K, Q207E, R211K	GermanNRC	ļ	3.0
 			1	GermanNRC	EFV	89.0
			4	GermanNRC	- ·	
5083-FRE	M41L, E44D, D67N, L74V, V118X, M184V, L210W,	K101P, G190A	K13NK, P14X, K20R, V35L, T39X, K43E, R83K,	GermanNRC	DLV	1.0

.

•		T215Y		D121ED, D123ED, I135T, S162D, E169D, D177E, I178M, H208Y, R211K, Q242P, V245X, N255X, L260F, S268X, Q269P			
		***************************************	ALL STATES OF THE STATES OF TH		GermanNRC	EFV	9.0
				and the second	GermanNRC	NVP	175.0
	5306-BRU	M41L, E44A, D67N, V75M, V118I, M184V, L210W, T215Y, K219N	K103N, G190A	K43E, V60I, K122E, I142V, S162D, D177E, I178M, G196E, E203V, Q207E, H208Y, R211K, W212X	GermanNRC	DLV	1.0
					GermanNRC	EFV	36.0
					GermanNRC	NVP	62.0
	5412-BRI	M41L, D67N, L74I, V75T, V118I, L210W, T215Y, K219N	K101Q, K103N, V108I, Y181C, G190A	V35M, T39A, K43E, V60X, K64NK, D123E, K173E, I178L, Q207E, D237F, K259NK, Q269P, A272P	GermanNRC		190.0
				<u> </u>	GermanNRC	'	
: 	 1		; ;= : - <del></del> -	•	GermanNRC		
	:5902-KAH		K103N, Y181C,	Q23X, K30X,	GermanNRC	DLV	22.0

.

	D67N, L74X, V118I, M184V, L210W, T215Y, K219N	G190A	V35T, E36X, K43X, K46Y, I47F, K49I, I50F, V60X, K82NK, V90X, K122E, D123N, I142V, K166R, D177G, H208Y, R211K, V245T, S268I, K275R, K277R				
				GermanNRC	EFV	41.0	
				GermanNRC	NVP	78.0	
6447-KRA	M41L, D67N, V75X, V118X, L210W, T215Y, K219R	V179I, G190A	V60I, D86X, V90X, K122E, T139K, P170X, I178M, Q207E, R211K, V245K	GermanNRC	DLV	1.0	
				GermanNRC	EFV	8.0	
				GermanNRC	NVP	187.0	
6893-SCHW	M41L, L210W, T215Y	A98G, K101E, Y181C, G190A	E28K, V35I, T39A, K43E, H96R, K122E, I142V, R172X, D186X, E203K, H208Y, R211K, L228R, K238E, V245T, E248X,	GermanNRC	DLV	256.0	

	7067-BUR	A62V, D67ED, T69S, V75I, M184I, L210W, T215X, K219X	4	K259NK, S268I, Q269P P4X, T58X, K64X, K66NK, R72SR, K122E, I135MI, I142V, R172K, D185X, D186X, Q197X, H198X,	GermanNRC GermanNRC GermanNRC	NVP	283.0
				R199G, Q207E, H208X, R211K, K220NK	GermanNRC	EFV	147.0
Makelalahan mengapakan Makalahan Indonesia Araba (1981) dan pengapan 1981, 1981, 1981, 1981, 1981, 1981, 1981,					GermanNRC		<b>{</b>
	7557-STE	M41L, V118I, M184V, L210W, T215Y	V106A, G190A, F227X, M230V	K43E, S68G, K122E, D123E, I135T, H198X, R199X, T200A, Q207X, R211NK, T216X, E233X	GermanNRC		1.0
					GermanNRC	EFV	101.0

■W ho We Are & How to Contact Us ■Pu blications

■Ac knowledgements

### The Data

- ■Us er Guide & Database Documents
   ■Da tabase Statistics
   ■HIV Treatment Websites

- ■Ad ditional Resources

A curated public database designed to represent, store, and analyze the divergent forms of data underlying HIV drug resistance.

MOME

GENOTYPE-RX

GENOTYPE-PHENO

GENOTYPE-CLINICAL

HIVdb PROGRAM

### **Detailed RT Phenotype Query**

Mutations G190A, References

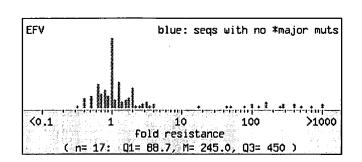
K101E

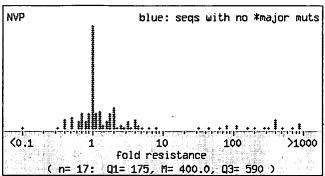
References 11 16

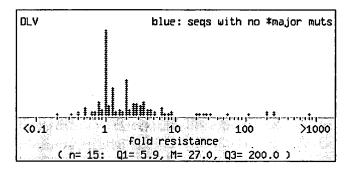
Drugs NVP,DLV,EFV Results 49

**Assay** ANY

WithNoOtherMajorMuts No







Page 1 from Results 1 to Result 49 from Total 49 Phenotype results

 the second secon				*	<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>						
Author (yr)	Type	Isolates	į	NRTI	NNRTI	Othe	er Mo	ethod	Drug !	Fold	ŧ
 					<del></del>						
j.			i i		1		•				

Huang (1999)	Lab	WH101E-108I- 190		K101E, V108I, G190A	K102Q, S162C, K277R	Virologic	DLV	>200.0
		1				Virologic	EFV	270.0
:			;			Virologic	NVP	>680.0
Petropoulos (2000)	Lab	NL43-nnrti-10	:	K101E, G190A	K102Q, S162C, K277R	Virologic	DLV	2.0
				1		Virologic	EFV	123.0
						Virologic	NVP	>500.0
<u>Winters</u> (2000)	Clinical	q759	A62V, D67N, T69~, V75I, F77L, Y115F, F116Y, Q151M, M184V, K219E	K101E, Y181C, G190A	V35L, S68G, K122E, I135T, R172K, E203QE, R211K	Winters- PBMC	EFV	>500.0
						Winters- PBMC	NVP	>150.0
Beerenwinkel (2002)	Clinical	6893-SCHW	M41L, L210W, T215Y	A98G, K101E, Y181C, G190A	E28K, V35I, T39A, K43E, H96R, K122E, I142V, R172X, D186X, E203K, H208Y, R211K, L228R, K238E, V245T, E248X, K259NK, S268I, Q269P	GermanNRC	DLV	256.0
		1		<u> </u>	<del></del>	GermanNRC	.'	
		ļ			<u> </u>	GermanNRC	,	
Gonzales (2002)	Clinical	49110-1	D67N, K70R, T215I, K219Q	A98S, K101E, V179I, G190A	K122E, D123E, D177E, I178L, V245E, K277R, T286A,	Virologic	DLV	

	+	F-+			E297K	\ /!==!==!=	-(,	70.0
					1 1 1 +	Virologic	EFV	ý
	<u> </u>			ļ		Virologic	<del></del>	>400.0
<u>Margot</u> (2002)	Clinical	MM-5219366841	A62VA, K65R, T69IT, V75AVTI, K219QRK	V108IV, Y181CY,		Virco	EFV	384.4
والمراود المراود فيها همدة هالله الاستخدام الوسيق المرسسول						Virco	NVP	32.1
Qari (2002)	Clinical	215566	D67N, T69D, T215Y, K219N	K101E, Y181C, G190A	K122E, I202V, A272P, K277R, Q278E, T286A, E297K, G335D, R356K, M357R, K366R, A376V, T386A, A400T	Virco	DLV	>110.6
						Virco	EFV	283.3
						Virco	NVP	>45.0
						Virologic	DLV	19.7
						Virologic	EFV	101.4
						Virologic	NVP	>893.0
<u>Johnston</u> (2005)	Clinical	71361-1	K65R	A98G, K101E, V179D, G190A	V35T, K49R, K122E, A158S, E169D, R211A, V245M	Virologic	DLV	5.9
						Virologic	EFV	>1500.0
					i	Virologic	NVP	>893.0
Mo (2005)	Clinical	8242_d660_Virco	D67N	A98G,	V35M,	Virco	DLV	192.3

	entitle state of administration of administration of administration of the administration of administr		K70R, T215F, K219Q	K101E, G190A	I135K, E169D, I178F, G196E, H208Y, D237DN, V276T, K281R, T286P, V292I, E297K, A304E, M357T, K366R, A400S			
						Virco	EFV	17.0
					1	Virco	NVP	84.5
Rhee (2005)	Clinical	CA7736	M41L, D67G, K70R, L74V, T215Y, K219E	K101E, Y181V, G190A	E28A, V60I, S68G, K122E, I135T, I178M	Virologic	DLV	>250.0
		-				Virologic	EFV	>700.0
1						Virologic	NVP	>400.0
Rhee (2006)	Clinical	71361-2	K65R	A98G, K101E, Y181C, G190A	V35T, K49R, K122E, A158S, E169D, R211A, V245M, K277R, T286A, A288S, E297A	Virologic	DLV	>800.0
	ļ <u>.</u>					Virologic	EFV	>1500.0
						Virologic	NVP	>893.0
		CA37949	M41L, D67N, T69N, K70R, T215F, K219Q	K101E, Y181C, G190A	K43QK, V60I, K122E, D123N, I135V, D177E, D218E, L228RH, K281R, T286AT, A288SA, I293V	Virologic	DLV	23.0

	•	i i	!		Virologic	EFV	105.0
The second secon	The second secon			:	Virologic	NVP	>200.0
	CA63818	M41L, D67N, T69ATDN, V75L, V118I, L210W, T215Y	A98G, K101E, Y181C, G190A	T39K, K43E, V60IV, I135T, E203D, Q207D, H208YH, R211K, H221YH, L228HL, V245EKQ, A288S	Virologic	DLV	31.0
					Virologic	EFV	400.0
					Virologic	NVP	300.0
	GA-2	D67NH, K70R, M184V, T215F, K219Q	K101E, Y181C, G190A		Virologic	DLV	2.4
					Virologic	EFV	50.0
-					Virologic	NVP	>400.0
	SR201325	M41L, T69D, V75M, V118I, L210W, T215Y, K219R	A98G, K101E, Y181C, G190A	E6K, V35M, T39A, K43E, K122E, P170LP, E203K, Q207D, H208Y, R211K, L228H, A272P, I293V, I329L	Virologic	DLV	7.4
					Virologic	EFV	46.0
					Virologic	NVP	>400.0
	SR208661	M41L, A62V, T69D, V75T, L210W, T215Y	K101E, Y181C, G190A	D123E, I135T, I142V, R211K, L228R, A272S, K277R, K281R, I293V, E297K, Q334E	Virologic	DLV	27.0

Virologic EFV 245.0 Virologic NVP >400.0

#### The Team

- ■W ho We Are & How to Contact Us ■Pu blications
- ■Ac .knowledgements

### The Data

- ■Us er Guide & Database Documents
  ■Da tabase Statistics
  ■HIV Treatment Websites

- ■Ad ditional Resources

© 1998-2006. All Rights Reserved. Questions? Contact HIVDB

A curated public database designed to represent, store, and analyze the divergent forms of data underlying HIV drug resistance.

HOME

GENOTYPE-RX

GENOTYPE-PHENO

GENOTYPE-CLINICAL

HIVOD PROGRAM

### **Detailed RT Phenotype Query**

**Mutations** 

G190A.

References

7

K103N

Isolates

20

**Drugs** 

NVP, DLV, EFV

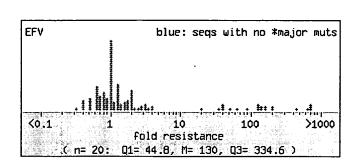
Results

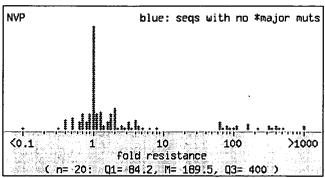
57

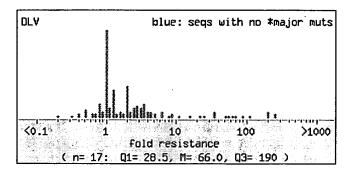
Assay

ANY

WithNoOtherMajorMuts No







Page 1 from Results 1 to Result 57 from Total 57 Phenotype results

r							
Author (yr)	Type   Isolat	es	NRTI	NNRTI.	Other Method	l Drug	Fold
I .	i	:		t	1		7

Petropoulos (2000)	Lab	NL43-nnrti- 13		K103N, G190A	K102Q, S162C, K277R	Virologic	DLV	37.0
						Virologic	EFV	213.0
The second of th						Virologic	NVP	>500.0
<u>Winters</u> (2000)	Clinical	q712	D67~, T69G, K70R, T215F, K219E	A98S, K103N, Y181C, G190AG	K20R, K102E, I135T, Q197K, I202VI, R211K, V245K, A272P	Winters- PBMC	EFV	42.5
			er o descriptor e e la constanta			Winters- PBMC	NVP	>150.0
Masquelier (2001)	Clinical	BM-19	M41L, T69T_ST, L74VL, L210W, T215Y	K103N, Y181C, G190A	K32RK, R83K, K122E, D123ND, Q207E, R211K, L228H, K238NK	Phenoscript	EFV	>209.0
						Phenoscript	NVP	>2894.0
		BM-32	M41L, D67G, T69T_T, K70R, L74V, V118I, M184V, T215F, K219Q	K103N, G190A	E42D, K43Q, K64N, D123E, T139R, I142T, T165I, I178MI, I202VI, F214L, L228H	Phenoscript	EFV	>137.0
						Phenoscript	NVP	>1463.0
Beerenwinkel (2002)	Clinical	2095-LAN	M41L, L74I, V118I, M184V, L210W, T215Y, K219N	A98G, K103N, V108I, G190A	V35I, E40F, K43E, S68G, K122E, S162C, R211K, A272P, K277R, T286P, A288P, L289N	GermanNRC		35.0
	1	**************************************			,	GermanNRC	EFV	40.0
	} <del>}</del>		<u></u>			GermanNRC	NVP	69.0

	2942-CODE	D67N, T69X, K70R, L74V, K219Q	K103N, Y181C, G190A	K20R, V35T, T39E, S48T, V60I, D76ED, K102Q, K122E, I135T, N136KN, E138A, K173T, D177E, I178L, T200A, K201NK, E204K, Q207A, R211K, F214L, L228H, V245Q, Q269X, A272P	GermanNRC		
				1	GermanNRC	<del> </del>	145.0
					GermanNRC	<b>}</b>	219.0
	2944-THA	M41L, D67N, K70X, T215F, K219Q	K103N, Y181C, G190A	V60I, D76N, D86X, K122E, D123K, I135T, N136KN, D177E, T200A, H208QH, D218E	GermanNRC		91.0
georder very sekua - cudadian - sekkapagannyan sugarka kapikalikuwa adam		-	4		GermanNRC	ļ	65.0
			, , , , , , , , , , , , , , , , , , ,		GermanNRC	NVP	359.0
	3349-KAH	M41L, E44D, D67N, L74V, V118I, L210W, T215Y, K219G	K103N, Y181C, G190A, M230I	V35T, K43R, F87LF, K122E, I142V, A158X, I159X, K166R, Q174R, D177G, I180M, Q197P,	GermanNRC	DLV	190.0

.

		The same and the s	H198P, E203K, R206K, Q207X, H208Y, R211N, T216X, H221X, Y232X			
 	·	<u> </u>		GermanNRC	· <del> </del>	· <del></del>
 				GermanNRC		·
4463-EIBE	M41L, E44D, D67N, T69D, V118I, L210W, T215Y, K219R	A98G, K103N, G190A	K20R, V35L, D123E, I135T, N137H, Q174X, D177E, I180MI, L193FL, E203D, R206X, H208Y, R211D, K223Q, L228H	GermanNRC	DLV	11.0
				GermanNRC	EFV	129.0
		a pro-		GermanNRC	<del></del>	159.0
4936-LAN	M41L, L74I, V118I, M184V, L210W, T215Y, K219N	A98G, K103N, G190A	V35I, E40F, K43E, S68G, K122E, S162C, T200I, R211K, Q269X, A272P, K277G, Q278H, A288P	GermanNRC	DLV	51.0
				GermanNRC	EFV	47.0
				GermanNRC	NVP	321.0
5306-BRU	M41L, E44A, D67N, V75M, V118I, M184V, L210W,	K103N, G190A	K43E, V60I, K122E, I142V, S162D, D177E, I178M,	GermanNRC	DLV	1.0

		T215Y, K219N		G196E, E203V, Q207E, H208Y, R211K, W212X			
nen etalan o anta an ancienta de la composición dela composición de la composición dela composición de la composición dela composición dela composición de la composición de la composición de la composición de l	· · · · · · · · · · · · · · · · · · ·			ļ	GermanNRC		36.0
					GermanNRC	NVP	62.0
	5412-BRI	M41L, D67N, L74I, V75T, V118I, L210W, T215Y, K219N	K101Q, K103N, V108I, Y181C, G190A	V35M, T39A, K43E, V60X, K64NK, D123E, K173E, I178L, Q207E, D218E, D237F, K259NK, Q269P, A272P	GermanNRC	DLV	190.0
					GermanNRC	EFV	93.0
					GermanNRC	NVP	335.0
	5902-KAH	M41L, E44DE, D67N, L74X, V118I, M184V, L210W, T215Y, K219N	K103N, Y181C, G190A	Q23X, K30X, V35T, E36X, K43X, K46Y, I47F, K49I, I50F, V60X, K82NK, V90X, K122E, D123N, I142V, K166R, D177G, H208Y, R211K, V245T, S268I, K275R, K277R	GermanNRC		41.0
				January Live Vice	GermanNRC		
:	787-BAR	M41L,	K103N,	S68G,	GermanNRC		

			D67E, L210W, T215Y	G190A	S163X, K166R, G196E, T200A, Q207K, R211E			
			, spin , spinker w		Market Park Company of the Co	GermanNRC	EFV	123.0
e ingalija og upaga og gjernege der til store i og gjernege						GermanNRC	NVP	441.0
Gonzales (2002)	Clinical	17468-2	T215Y	K103N, Y181C, G190A	R83K, I135V, E169D, T200A, Q207E, K238N, V245E	Virologic		>250.0
			<u> </u>			Virologic	EFV	>700.0
Account of the same of the sam		The second of the second secon		1811-18		Virologic	NVP	>400.0
		17468-4	T215Y	K103N, V108I, Y181C, G190A	R83K, I135V, T139K, E169D, T200A, Q207E, V245Q	Virologic	DLV	>250.0
						Virologic	EFV	>700.0
		1				Virologic	NVP	>400.0
<u>Margot</u> (2002)	Clinical	MM- 2454367801	M41L, E44A, L74I, M184V, T215Y	K103N, G190A	K43E, R83K, I135L, G196E, T200A, V245M, Q334N, K390R	Virco	DLV	35.5
- province		entre en en en hoggegegegen de souden Managery				Virco	EFV	456.2
						Virco	NVP	90.4
		MM- 3070365661	M41L, E44D, D67N, L210W, T215Y	K103N, G190A	R83K, D123E, I178L, R211K, T286A, E297K, A371V, I375V, A376S, K390R	Virco	DLV	73.1
						Virco	EFV	621.3
	r	pro de la colonia de la constante de la consta			1	Virco	NVP	63.5
	ţ	MM-	M41L,	K103N,	V35IV,	Virco	DLV	195.6

		4262368221	D67N, V75L, L210W, T215Y, K219R	G190A	T39A, K43E, V60I, K102DN, D110ED, D123E, I135T, I142V, S162Y, V189IV, G196EG, E203A, R211K, H221Y, A288S, T290AT, V317A, I329VI, Q334D, G359S, A371T, S379C, K390R			
The state of the s						Virco	EFV	685.3
						Virco	NVP	103.6
Mo (2005)	Clinical	8371_d105	M184V	K103NK, G190A	V35I, I135T, R211K, V245K, T286A, E297K, K311RK, I326VI, Q334L, T377Q, K390R, K395KN, A400AV	Virco	DLV	16.3
						Virco	EFV	21.3
and the second	<u></u>	i !				Virco	NVP	59.5

■W ho We Are & How to Contact Us

■Pu blications

■Ac knowledgements

### The Data

- ■Us er Guide & Database Documents
- ■Da tabase Statistics
  ■HIV Treatment Websites
  ■Ad ditional Resources

## V DRUG RESISTANCE DATABASE

A curated public database designed to represent, store, and analyze the divergent forms of data underlying HIV drug resistance.

GENOTYPE-RX

GENOTYPE-PHENO GENOTYPE-CLINICAL

MIVAD PROGRAM

### **Detailed RT Phenotype Query**

**Mutations** 

G190A,

References

0

K101E,

**Isolates** 

0

K103N

Results

**Drugs** 

NVP,DLV,EFV

**Assay** 

**ANY** 

WithNoOtherMajorMuts No

There are no results matching the query

A curated public database designed to represent, store, and analyze the divergent forms of data underlying HIV drug resistance.

MONIE

GENOTYPE-RX

GENOTYPE-PHENO

GENOTYPE-CLINICAL

HIVOD PROGRAM

### **Detailed RT Phenotype Query**

**Mutations** 

G190A,

References

0

K101E,

**Isolates** 

0

K103N

Results

0

**Drugs** 

NVP,DLV,EFV

Assay

ANY

WithNoOtherMajorMuts No

There are no results matching the query

A curated public database designed to represent, store, and analyze the divergent forms of data underlying HIV drug resistance.

HOME

GENOTYPE-RX

GENOTYPE-PHENO

GENOTYPE-CLINICAL

HIVOD PROGRAM

### **Detailed RT Phenotype Query**

**Mutations** 

G190S.

References

1

K101E

Isolates

12

Drugs

NVP,DLV,EFV

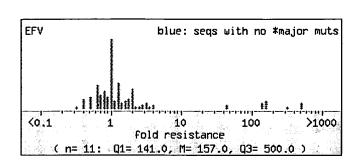
Results

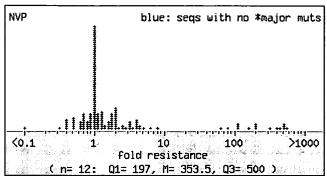
35

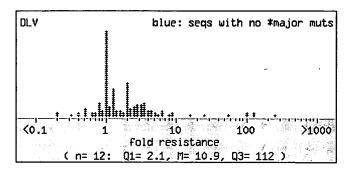
**Assay** 

ANY

WithNoOtherMajorMuts No







Page 1 from	Results 1 t	o Result 35 f	rom Total 35	Phenotype	results

Author (yr)	Type	Isolates	NRTI	NNRTI	Other	Method Drug	Fold
The same of the sa	5. 7			<del></del>			
,			1	•			

Petropoulos (2000)	Clinical	P644	et de	K101E, G190S		Virologic	DLV	3.0
						Virologic	NVP	580.0
	Lab	NL43-nnrti- ,11		K101E, G190S	K102Q, S162C, K277R	Virologic	DLV	1.4
				· · · · · · · · · · · · · · · · · · ·		Virologic	EFV	>500.0
	1	1				Virologic	NVP	>500.0
Beerenwinkel (2002)	Clinical	3854-MUE	A62X, L74V, T215Y, K219Q	K101E, Y181R, Y188X, G190S, P226X, P236L	T58X, R83K, D123E, W153A, S156X, P157X, A158Q, I159SR, S162RS, S163X, M164SR, I167F, L168*, E169D, P170X, F171X, R172S, I178L, Y183N, L187Q, D192E, Q207E, H208X	GermanNRC	DLV	95.0
						GermanNRC	EFV	141.0
						GermanNRC	NVP	200.0
		3864- SCHA	M41L, D67N, L210W, T215Y	K101E, K103N, G190S	G18X, I31X, V35I, C38W*C, Y56X, N57KN, T58I, D121Y, K122E, D177E, I178V, G196E, T200I, R211A, P243X	GermanNRC		141.0
	1	W.F	7 1	<u> </u>		GermanNRC		<u> </u>
1				ì	Ł	GermaninkC	INVP	・といいし

E	D67N, K70R, L210X, T215Y, K219E	K101E, Y181C, G190S	V35T, T39S, T58X, V60I, K122E, I135M, R172X, L228H	GermanNRC		
				GermanNRC	EFV	44.0
	1			GermanNRC	NVP	169.0
6663-WER	M41L, E44D, D67N, T69D, L74V, V118I, L210W, T215Y	A98G, K101E, K103NK, V179X, Y181C, G190S	Y56X, F87LF, K122E, S162C, R172K, I180X, Q197HQ, T200A, E203K, Q207E, R211K, T216X, K223Q	GermanNRC	-	102.0
				GermanNRC	EFV	157.0
				GermanNRC	NVP	448.0
7000-HOG	M41L, D67X, T69D, V75A, V118I, L210W, T215Y		V35I, I37MI, T39X, E40F, K43E, K46NK, K49X, P52X, E53G, R72SR, R83X, L92X, V111I, K122P, I135T, E138A, E169K, K173E, I180F, D186X, G196E, Q197K, H198X, H208F, R211K, Q222P,	GermanNRC	DLV	2.0

					D237ED	• •	:	
1			1			GermanNRC	EFV	147.0
						GermanNRC	j	
		7066-SAM	M41L, D67N, K70R, V75M, T215F, K219E	K101E, G190S	P52X, N54X, P55X, Y56X, N57K, T58I, P59X, V60X, F61LF, I63L, K64R, F87LF, D123E, I180X, G196E, Q197HQ, Q207H, H235P	GermanNRC	DLV	256.0
			1			GermanNRC	EFV	162.0
ord as an all the movement recently and the immediates of the immediates.	1	The state of the s				GermanNRC	NVP	194.0
		7134-BON	M41L, D67N, V75M, V118I, Q151X, M184I, L210W, T215F, K219N	K101E, Y181C, G190S	E40F, K43E, K122E, I142V, S162C, D185X, D186N, T200X, H208Y, R211K, D218X, Q222HQ	GermanNRC	DLV	122.0
					}	GermanNRC	EFV	45.0
			· ·			GermanNRC	NVP	114.0
Mo (2005)	Clinical		M41L, D67N, K70R, V75M, M184V, T215F, K219E	K101E, G190S	V60I, D123E, G196E, Q207H, A272P, Q278H, E297K	Virologic	DLV	0.2
<u>-</u>	***************************************	• • • • • • • • • • • • • • • • • • •		-		Virologic	EFV	302.0
· !	<u>.</u> .				· · · · · · · · · ·			512.8
Rhee (2006)	Clinical	NY0528	M41L, D67N, M184V, T215F	K101E, V179I, G190S, M230L	K43Q, K49R, V60I, R83K,	Virologic	DLV	5.7

NY053	D67d,	K101E, K103R, G190S	Virologic	;	500.0 300.0 2.2
				<b></b>	500.0 500.0

- ■W ho We Are & How to Contact Us
  ■Pu blications
  ■Ac knowledgements

### **The Data**

- ■Us er Guide & Database Documents
  ■Da tabase Statistics
  ■HIV Treatment Websites
  ■Ad ditional Resources

© 1998-2006. All Rights Reserved. Questions? Contact HIVDB

A curated public database designed to represent, store, and analyze the divergent forms of data underlying HIV drug resistance.

MOME

GENOTYPE-RY

GENOTYPE-PHENO

GENOTYPE-CLINICAL

HIVAD PROGRAM

### **Detailed RT Phenotype Query**

**Mutations** 

G190S,

References

2

K103N

Isolates

4

Drugs

NVP, DLV, EFV

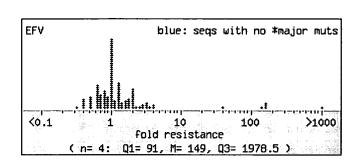
Results

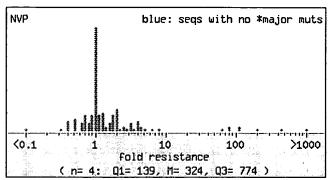
12

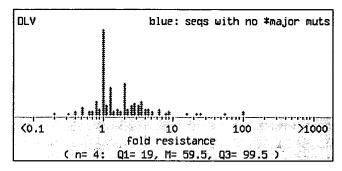
Assay

ANY

WithNoOtherMajorMuts No







Drug susceptibility results of sequences matching input query are shown in the table below. Literature references are indicated, as well as the isolate name and type and a list of major, minor and other mutations. The fold resistance to the indicated antiretroviral drug is indicated in the last column of the table. Data is also summarized above in graphical format. Blue bars indicate the range of resistance of those sequences with no \*major drug resistance mutations (mutations at position 41, 44, 62, 65, 67, 69, 70, 74, 75, 77, 115, 116, 118, 151, 184, 210, 215, 219, 333, 98,100,101, 103, 106, 108, 179, 181, 188, 190, 225, 226, 227, 230, 234, 236, 238, 318) and red bars indicate the fold resistance of sequences matching the input query. The total number of sequences(n), the median fold resistance(m), as well as the first(Q1) and third quartile(Q3) are indicated.

Page 1 from Results 1 to Result 12 from Total 12 Phenotype results

				 				-	
Author (vr) Type	laalataa	NRTI	NNRTI	Other	1	Method	D	Fold	: 1
Author (yr) Type	Isolates	147711	NINKII	Other	1	wethod	Drug	FUIG	
				 ~			~		
							i	•	

Bacheler (2001)	Lab	LB- 48T- 103N- 190		K103N, G190S	S48T, K122E, F214L, A272P, K277R	Virco	DLV	97.0
<u> </u>			: -			Virco	EFV	3800.0
		! 				Virco	NVP	1100.0
Beerenwinkel (2002)	Clinical	SCHA	M41L, D67N, L210W, T215Y	K101E, K103N, G190S	G18X, I31X, V35I, C38W*C, Y56X, N57KN, T58I, D121Y, K122E, D177E, I178V, G196E, T200I, R211A, P243X	GermanNRC	DLV	16.0
			The second secon		A CONTRACTOR OF THE PROPERTY O	GermanNRC	EFV	141.0
						GermanNRC	NVP	200.0
		5803- SCH	M41L, A62V, D67N, K70X, L74MI, V75T, T215Y	K101R, K103N, G190S	Q23X, V60X, K64NK, S68X, R72X, D76N, R78X, E79X, R83K, D123E, D177E, I178L, I202V, Q207R, R211S, D237E	GermanNRC	DLV	22.0
				<u> </u>	ļ	<u> </u>	EFV	
		<u></u>			<u> </u>	GermanNRC	NVP	78.0
		2	M41L, E44D, D67N, T69D, L74V, V118I, L210W, T215Y	A98G, K101E, K103NK, V179X, Y181C, G190S	Y56X, F87LF, K122E, S162C, R172K, I180X, Q197HQ, T200A,	GermanNRC	DLV	102.0

		E203K, Q207E, R211K, T216X, K223Q				
	1		GermanNRC	EFV	157.0	- 4-1
			GermanNRC	NVP	448.0	

- ■W ho We Are & How to Contact Us
  ■Pu blications
  ■Ac knowledgements

### The Data

- ■Us er Guide & Database Documents
  ■Da tabase Statistics
  ■HIV Treatment Websites
  ■Ad ditional Resources

© 1998-2006. All Rights Reserved. Questions? Contact HIVDB

A curated public database designed to represent, store, and analyze the divergent forms of data underlying HW drug resistance.

MOME

GENOTYPE-RX

GENOTYPE-PHENO

GENOTYPE-CLINICAL

HIVED PROGRAM

## **Detailed RT Phenotype Query**

**Mutations** 

G190S,

References

1

K101E,

**Isolates** 

2

K103N

Results

6

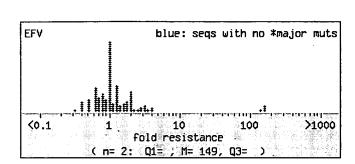
**Drugs** 

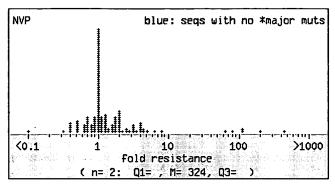
NVP,DLV,EFV

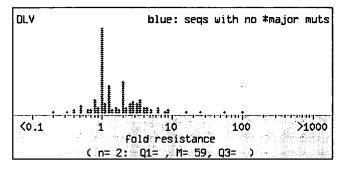
**Assay** 

ANY

WithNoOtherMajorMuts No







Drug susceptibility results of sequences matching input query are shown in the table below. Literature references are indicated, as well as the isolate name and type and a list of major, minor and other mutations. The fold resistance to the indicated antiretroviral drug is indicated in the last column of the table. Data is also summarized above in graphical format. Blue bars indicate the range of resistance of those sequences with no \*major drug resistance mutations (mutations at position 41, 44, 62, 65, 67, 69, 70, 74, 75, 77, 115, 116, 118, 151, 184, 210, 215, 219, 333, 98, 100, 101, 103, 106, 108, 179, 181, 188, 190, 225, 226, 227, 230, 234, 236, 238, 318) and red bars indicate the fold resistance of sequences matching the input query. The total number of sequences(n), the median fold resistance(m), as well as the first(Q1) and third quartile(Q3) are indicated.

Page 1 from Results 1 to Result 6 from Total 6 Phenotype results

The second of th	<del></del>	<del></del>						
Author (yr)	Type	Isolates	NRTI	NNRTI	Othor	Method	Drua ·	Fold
Author (yr)	iype	15UIALES	INEX I I	: 141ALZ 1.1	Other	, Metiloa	Drug	i olu

Beerenwinkel (2002)		M41L, D67N, L210W, T215Y	K103N, G190S	G18X, I31X, V35I, C38W*C, Y56X, N57KN, T58I, D121Y, K122E, D177E, I178V, G196E, T200I, R211A, P243X	GermanNRC  GermanNRC		16.0
	<u> </u>				GermanNRC	<b></b>	200.0
	6663- WER	M41L, E44D, D67N, T69D, L74V, V118I, L210W, T215Y	K101E,	Y56X, F87LF, K122E, S162C, R172K, I180X, Q197HQ, T200A, E203K, Q207E, R211K, T216X, K223Q	GermanNRC		102.0
	1		-		GermanNRC GermanNRC	ļ	157.0 448.0
L. L.		<b></b>		į			0.0

- ■W ho We Are & How to Contact Us
- ■Pu blications
- ■Ac knowledgements

### **The Data**

- ■Us er Guide & Database Documents
- ■Da tabase Statistics
- ■HIV Treatment Websites
- ■Ad ditional Resources

A curated public database designed to represent, store, and analyze the divergent forms of data underlying HIV drug resistance.

MOME

GENOTYPE-RX

GENOTYPE-PHENO

GENOTYPE-CLINICAL

HIVOD PROGRAM

## **Detailed RT Phenotype Query**

**Mutations** 

G190A,

References

2

K103N, A98

Isolates

4

**Drugs** 

NVP, DLV, EFV

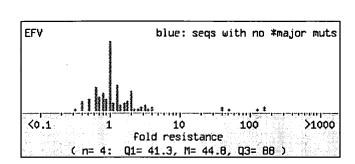
Results

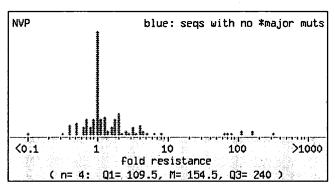
11

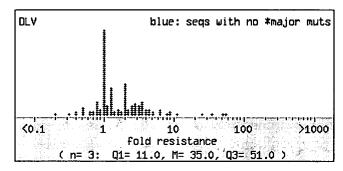
Assay

ANY

WithNoOtherMajorMuts No







Page 1	from Re	esulte 1	to	Result 11	from	Total 11	Phenotype	results

•	Author (yr)	;	Type	Isolates	NRTI	NNRTI	Other	Method	: Drug   Fold	i
per .				· · · · · · · · · · · · · · · · · · ·				·	a magazina a manadama manada a da da	-
1		- 1		ì				ł	:	

Winters (2000)	Clinical	q712	D67~, T69G, K70R, T215F, K219E	A98S, K103N, Y181C, G190AG	•	Winters- PBMC	EFV	42.5
V - International Control of the Con	the section of the se					Winters- PBMC	NVP	>150.0
Beerenwinkel (2002)	Clinical		M41L, L74I, V118I, M184V, L210W, T215Y, K219N	A98G, K103N, V108I, G190A	V35I, E40F, K43E, S68G, K122E, S162C, R211K, A272P, K277R, T286P, A288P, L289N	GermanNRC	DLV	35.0
***						GermanNRC	EFV	40.0
						GermanNRC	NVP	69.0
		i .	M41L, E44D, D67N, T69D, V118I, L210W, T215Y, K219R	A98G, K103N, G190A	K20R, V35L, D123E, I135T, N137H, Q174X, D177E, I180MI, L193FL, E203D, R206X, H208Y, R211D, K223Q, L228H	GermanNRC	the case a special of the case	11.0
			<u> </u>		1	GermanNRC	EFV	129.0
The site of the si	1 1 /		44544 4 868004004000000000000000000000000000000		The second secon	GermanNRC	NVP	159.0
		LAN	M41L, L74I, V118I, M184V, L210W, T215Y, K219N	K103N, G190A	V35I, E40F, K43E, S68G, K122E, S162C, T200I, R211K, Q269X, A272P,	GermanNRC	DLV	51.0

		K277G, Q278H, A288P		1	; ; ;
			GermanNRC	EFV	47.0
		The state of the s	GermanNRC		321.0

■W ho We Are & How to Contact Us ■Pu blications

■Ac knowledgements

### The Data

- ■Us er Guide & Database Documents
  ■Da tabase Statistics
  ■HIV Treatment Websites
  ■Ad ditional Resources

A curated public database designed to represent, store, and analyze the divergent forms of data underlying HW drug resistance.

HOME

GENOTYPE-RX

GENOTYPE-PHENO

GENOTYPE-CLINICAL

MIVAL PROGRAM

### **Detailed RT Phenotype Query**

Mutations G190A,

190A, References

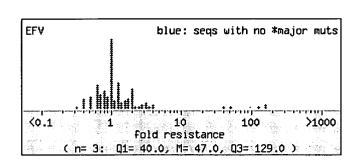
K103N, A98G

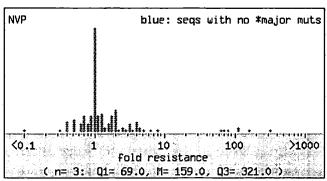
Isolates 3

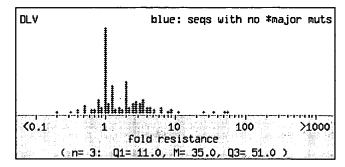
**Drugs** NVP,DLV,EFV

Results 9

Assay ANY WithNoOtherMajorMuts No







Drug susceptibility results of sequences matching input query are shown in the table below. Literature references are indicated, as well as the isolate name and type and a list of major, minor and other mutations. The fold resistance to the indicated antiretroviral drug is indicated in the last column of the table. Data is also summarized above in graphical format. Blue bars indicate the range of resistance of those sequences with no \*major drug resistance mutations (mutations at position 41, 44, 62, 65, 67, 69, 70, 74, 75, 77, 115, 116, 118, 151, 184, 210, 215, 219, 333, 98, 100, 101, 103, 106, 108, 179, 181, 188, 190, 225, 226, 227, 230, 234, 236, 238, 318) and red bars indicate the fold resistance of sequences matching the input query. The total number of sequences(n), the median fold resistance(m), as well as the first(Q1) and third quartile(Q3) are indicated.

Page 1 from Results 1 to Result 9 from Total 9 Phenotype results

-			·	· · · · · · · · · · · · · · · · · · ·									
	Author (yr)	1	Type	Isolates	NRTI	-	NNRTI	Other	ŧ	Method	Drug	Fo	
				7							;		
		ŧ		1	l								

Beerenwinkel Cl (2002)		AN	V118I, M184V,	A98G, K103N, V108I, G190A	V35I, E40F, K43E, S68G, K122E, S162C, R211K, A272P, K277R, T286P, A288P, L289N	GermanNRC	DLV	35.0
			Company of the Control of the Contro		T	GermanNRC	EFV	40.0
	ļ		umddaun, plannyr reger yr yr mae'n neigan a Laus, an ar gyrgyyr n y			GermanNRC	NVP	69.0
		BE	M41L, E44D, D67N, T69D, V118I, L210W, T215Y, K219R	A98G, K103N, G190A	K20R, V35L, D123E, I135T, N137H, Q174X, D177E, I180MI, L193FL, E203D, R206X, H208Y, R211D, K223Q, L228H	GermanNRC	DLV	11.0
						GermanNRC	EFV	129.0
						GermanNRC	NVP	159.0
	49 LA	N I	M41L, L74I, V118I, M184V, L210W, T215Y, K219N	A98G, K103N, G190A	V35I, E40F, K43E, S68G, K122E, S162C, T200I, R211K, Q269X, A272P, K277G, Q278H, A288P	GermanNRC		
	:			·		GermanNRC	EFV	47.0
	;					GermanNRC	NVP	321.0

- ■W ho We Are & How to Contact Us
  - ■Pu blications
  - ■Ac knowledgements

- ■Us er Guide & Database Documents
  ■Da tabase Statistics
  ■HIV Treatment Websites
  ■Ad ditional Resources

A curated public database designed to represent, store, and analyze the divergent forms of data underlying HW drug resistance.

NOME

GENOTYPE-RX

GENOTYPE-PWENO

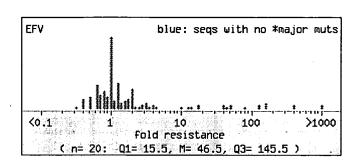
GENOTYPE-CLINICAL

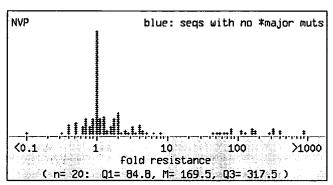
KIVOD PROGRAM

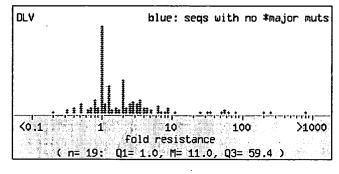
### **Detailed RT Phenotype Query**

MutationsG190A, A98References7DrugsNVP,DLV,EFVIsolates20AssayANYResults59

WithNoOtherMajorMuts No







Page 1 from Results 1 to Result 59 from Total 59 Phenotype results

Author (yr)	Туре	Isolates	NRTI	NNRTI	Other	Method	Drug Fold
<u>Winters</u>	Clinical		D67~,	A98S,	K20R,	Winters-	EFV 42.5

(2000)			T69G, K70R, T215F, K219E	K103N, Y181C, G190AG	K102E, I135T, Q197K, I202VI, R211K, V245K, A272P	PBMC	· entire	
	nganga ngari ra					Winters- PBMC	NVP	>150.0
Beerenwinkel (2002)	Clinical	1771-REC	M41W, E44DE, A62X, D67N, T69D, K70X, L74X, F77LF, V118I, L210W, T215Y, K219Q	A98G, K101G, Y181C, G190A	K20R, V21F, V35M, K43X, I50X, P52X, N54X, P55X, Y56N, N57K, T58I, P59X, V60X, I63X, K64R, S68RS, R72X, R78X, L80X, T84I, D86N, W88X, I94K, P95Q, H96X, K102X, K10X, K10X, K10X, K10X, K10X, K10X, K10X, K10X, K10X, K10X, K10X, K10X, K10X, K10X	GermanNRC	DLV	9.0
						GermanNRC	EFV	122.0
	Market As					GermanNRC	NVP	180.0
	2095-LAN	M41L, L74I, V118I, M184V, L210W, T215Y,	A98G, K103N, V108I, G190A	V35I, E40F, K43E, S68G, K122E, S162C,	GermanNRC	DLV	35.0	

		K219N		R211K, A272P, K277R, T286P, A288P, L289N	GermanNRC	FFV	40.0
			1	·	GermanNRC	!	·
·	292-MAT	M41L, E44D, T69D, V75M, V118I, L210W, T215S	A98S, Y181C, G190A	P4S, E6D, K20R, K43N, K102Q, K122D, K166R, T200M, Q207E, R211K, E224D, L228R	GermanNRC	·	·
	- 11-1111 has bandatticked over a copy over 10 as a succession of the copy over 10 as a succession of the copy				GermanNRC		51.0
					GermanNRC		314.0
	3885-TIM	M41L, D67N, T69D, T215Y	A98G, G190A	T58I, V60I, K82R, R83K, L120S, D123ED, F124X, T131H, I135V, N137P, E138X, T139I, R143X, Q145HQ, Y146*Y, W153X, S162C, S163RS, E169D, E194D, H208X		DLV	1.0
	<u> </u>	<u> </u>	: !		GermanNRC	'. <b>.</b>	<u> </u>
	4463-EIBE	E44D,	A98G, K103N, G190A	K20R, V35L, D123E, I135T,	GermanNRC GermanNRC		<del>}</del>

			V118I, L210W, T215Y, K219R		N137H, Q174X, D177E, I180MI, L193FL, E203D, R206X, H208Y, R211D, K223Q, L228H	GermanNRC	EFV	129.0
			·			GermanNRC	NVP	159.0
		4936-LAN	M41L, L74I, V118I, M184V, L210W, T215Y, K219N	A98G, K103N, G190A	V35I, E40F, K43E, S68G, K122E, S162C, T200I, R211K, Q269X, A272P, K277G, Q278H, A288P	GermanNRC	DLV	51.0
						GermanNRC	EFV	47.0
						GermanNRC	NVP	321.0
		6893-SCHW	M41L, L210W, T215Y	A98G, K101E, Y181C, G190A	E28K, V35I, T39A, K43E, H96R, K122E, I142V, R172X, D186X, E203K, H208Y, R211K, L228R, K238E, V245T, E248X, K259NK, S268I, Q269P	GermanNRC		
1				ř.		GermanNRC	EFV	162.0
عط بالمناصلية والحا	-	5	,			·		· <del></del>
Gonzales	-	49110-1	D67N,	A98S,	K122E,	GermanNRC Virologic	NVP DLV	283.0

(2002)			K70R, T215I, K219Q	K101E, V179I, G190A	D123E, D177E, I178L, V245E, K277R, T286A, E297K			:
			<u> </u>			Virologic		76.0
	<del></del>		1			Virologic		>400.0
		49110-3	D67N, K70R, T215F, K219Q	A98S, V179I, G190A	K122E, D123E, D177E, I178L, V245E, K277R, T286A, E297K, K311R	Virologic	DLV	0.4
						Virologic	EFV	4.3
						Virologic	NVP	85.0
<u>Margot</u> (2002)	Clinical	MM-3576366701	M41L, M184V, T215FY	A98S, K101DEHQ, G190A	D121Y, I135VI, I142VI, D177E, Q207E, R211K, D237E, T286A, M357T, R358KR, T377Q, T386AVTI, K395R, E399D, A400TA	Virco	DLV	59.4
	<u></u>					Virco	EFV	398.4
The state of the s					1406-	Virco	NVP	49.5
		MM-4346366641	M41L, E44D, M184V, T215Y	A98G, V179I, G190A	K20R, K102Q, D123E, I135M, Q207E, T286A, E297K, I329LI, A360T, V365IV	Virco	DLV	0.3
	;				£	Virco	EFV	
· · · · · · · · · · · · · · · · · · ·					<del>.</del>	Virco		121.9
Johnston	!Clinical	71361-1	K65R	A98G,	'V35T,	Virologic	DLV	¦5.9

(2005)				K101E, V179D, G190A	K49R, K122E, A158S, E169D, R211A, V245M		•	
			1	1		Virologic	EFV	>1500.0
		The second secon				Virologic	NVP	>893.0
Mo (2005)	Clinical	8242_d660_Virco	D67N, K70R, T215F, K219Q	A98G, K101E, G190A	V35M, I135K, E169D, I178F, G196E, H208Y, D237DN, V276T, K281R, T286P, V292I, E297K, A304E, M357T, K366R, A400S	Virco	DLV	192.3
						Virco	EFV	17.0
				TOTAL CONTRACTOR OF THE CONTRA	Virco	NVP	84.5	
		8315_d867	M184V	A98S, G190A	K43E, K122E, I142V, E203K, R211RS, V245T, E297K	Virologic	DLV	0.7
						Virologic	EFV	14.0
						Virologic	NVP	182.0
		8315_d985	M184V	A98S, G190A	K43E, K122E, I142V, E203K, R211S, V245T, E297KR	Virologic	DLV	0.5
per management de la persona		To the street of the second of the second se	•		**************************************	Virologic	EFV	9.5
and the second			1			Virologic		156.0
·		8371_d286		A98SA, G190A	V35I, I135T, V189VI, R211K, V245K, T286A,	Virco	DLV	

					E297K, 1326V, Q334L, T377Q, K390R, A400AV			
			;	1	:	Virco	EFV	13.2
			; jul			Virco	NVP	42.9
Rhee (2006)	Clinical	71361-2	K65R	A98G, K101E, Y181C, G190A	V35T, K49R, K122E, A158S, E169D, R211A, V245M, K277R, T286A, A288S, E297A	Virologic	DLV	>800.0
					· · · · · · · · · · · · · · · · · · ·	Virologic	EFV	>1500.0
add the communication preprieters and benchmark about table (1) below processes to	ettilikkin (v. t/) Dv.akr villakkin (v. tv. v. v					Virologic	NVP	>893.0
		CA63818	M41L, D67N, T69ATDN, V75L, V118I, L210W, T215Y	A98G, K101E, Y181C, G190A	T39K, K43E, V60IV, I135T, E203D, Q207D, H208YH, R211K, H221YH, L228HL, V245EKQ, A288S	Virologic	DLV	31.0
						Virologic	EFV	400.0
						Virologic	NVP	300.0
		SR201325	M41L, T69D, V75M, V118I, L210W, T215Y, K219R	A98G, K101E, Y181C, G190A	E6K, V35M, T39A, K43E, K122E, P170LP, E203K, Q207D, H208Y, R211K, L228H, A272P, I293V, I329L	Virologic	DLV	7.4
	- - -					Virologic	(ECV	46.0

- ■W ho We Are & How to Contact Us
  ■Pu blications
  ■Ac knowledgements

### The Data

- ■Us er Guide & Database Documents
  ■Da tabase Statistics
  ■HIV Treatment Websites
  ■Ad ditional Resources

A curated public database designed to represent, store, and analyze the divergent forms of data underlying HW drug resistance.

MOME

GEMOTYPE-RY

GENOTYPE-PHENO

GENOTYPE-CLINICAL

HIVOD PROGRAM

### **Detailed RT Phenotype Query**

Mutations

G190S, A98

References

2

**Drugs** 

NVP, DLV, EFV

Isolates

4

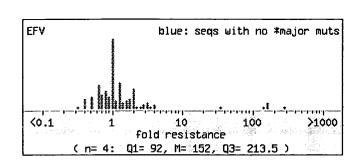
Assay

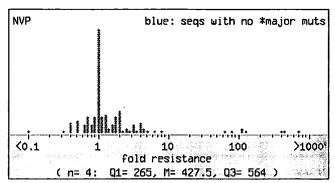
**ANY** 

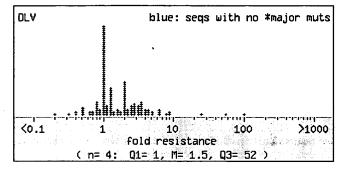
Results

12

WithNoOtherMajorMuts No







Page 1 from Results 1 to Result 12 from Total 12 Phenotype results

_ Author (yr)	Type	'Isolates,	NRTI NNRTI	Other	Method	Drug Fold
Huang	Lab	WH-	A98G,	K102Q,	Virologic	DLV 1.0

<u>(1999)</u>		98G- 190S		G190S	S162C, K277R			
			1			Virologic	EFV	>270.0
			an annual proposessors of the body continues and respective			Virologic	NVP	>680.0
Beerenwinkel (2002)	Clinical	4848- MAR	D67N, K70R, M184V, K219E	A98R, L100V, G190S	T58X, V60I, F87X, V90X, Q91E, L92X, P95X, G99X, Y127X, S162H, T200A, E203K, Q207E, R211K, K249NK	GermanNRC	DLV	1.0
						GermanNRC	EFV	37.0
						GermanNRC	NVP	123.0
	·	6663- WER	M41L, E44D, D67N, T69D, L74V, V118I, L210W, T215Y	A98G, K101E, K103NK, V179X, Y181C, G190S	Y56X, F87LF, K122E, S162C, R172K, I180X, Q197HQ, T200A, E203K, Q207E, R211K, T216X, K223Q	GermanNRC	DLV	102.0
	er von der de	[	en e			GermanNRC	EFV	157.0
		-				GermanNRC	NVP	448.0
		HOG	M41L, D67X, T69D, V75A, V118I, L210W, T215Y	A98S, K101ED, G190S	V35I, I37MI, T39X, E40F, K43E, K46NK, K49X, P52X, E53G, R72SR, R83X, L92X, V111I, K122P,	GermanNRC	DLV	2.0

		·	I135T, E138A, E169K, K173E, I180F, D186X, G196E, Q197K, H198X, H208F, R211K, Q222P, D237ED			
				GermanNRC	EFV	147.0
·				GermanNRC	NVP	407.0

- ■W ho We Are & How to Contact Us ■Pu blications
- ■Ac knowledgements

### The Data

- ■Us er Guide & Database Documents
  ■Da tabase Statistics
  ■HIV Treatment Websites
  ■Ad ditional Resources

A curated public database designed to represent, store, and analyze the divergent forms of data underlying HIV drug resistance.

MOME

GENOTYPE-RX

GENOTYPE-PHENO

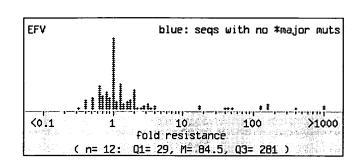
GENOTYPE-CLINICAL

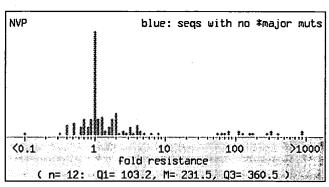
HIVOD PROGRAM

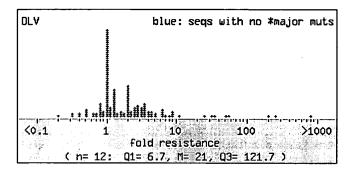
### **Detailed RT Phenotype Query**

MutationsG190A, A98GReferences5DrugsNVP,DLV,EFVIsolates12AssayANYResults36

WithNoOtherMajorMuts No







Page 1 from Results 1 to Result 36 from Total 36 Phenotype results

Author (yr) Type	Isolates	NRTI	NNRTI	Other	Method	Drug	Fold
Beerenwinkel Clinical	1771-REC	M41W,	A98G,	K20R,	GermanNRC	DLV	9.0

2002)	I	:	EAADE	K1010	V24E		(	<u>;</u>
2002)			E44DE, A62X, D67N, T69D, K70X, L74X, F77LF, V118I, L210W, T215Y, K219Q	K101G, Y181C, G190A	V35M, K43X, I50X, P52X, N54X, P55X, Y56N, N57K, T58I, P59X, V60X, I63X, K64R, S68RS, R72X, R78X, L80X, T84I, D86N, W88X, I94K, P95Q, H96X, K102X,			
					K122E, D123N, E169D, H198X, E203K, H208Y, R211D, L228H			
******************************						GermanNRC	EFV	122.0
						GermanNRC	<b></b>	180.0
		2095-LAN	M41L, L74I, V118I, M184V, L210W, T215Y, K219N	K103N, V108I, G190A	K43E,	GermanNRC	DLV	35.0
	· i .	:		efectively reflects and an artifact	A288P, L289N			
* * .	• -		The state of the s			GermanNRC	EFV	40.0
				. I a grade	. ·	GermanNRC	·	
		3885-TIM	M41L, D67N,	A98G, G190A		GermanNRC	-	

	T69D, T215Y		K82R, R83K, L120S, D123ED, F124X, T128X, T131H, I135V, N137P, E138X, T139I, R143X, Q145HQ, Y146*Y, W153X, S162C, S163RS, E169D, E194D, H208X	GermanNRC	EFV	1.0
				GermanNRC	NVP	56.0
4463-EIBE	M41L, E44D, D67N, T69D, V118I, L210W, T215Y, K219R	K103N,	K20R, V35L, D123E, I135T, N137H, Q174X, D177E, I180MI, L193FL, E203D, R206X, H208Y, R211D, K223Q, L228H		DLV	11.0
				GermanNRC	EFV	129.0
 ·		<u> </u>			NVP	ļ
4936-LAN	M41L, L74I, V118I, M184V, L210W, T215Y, K219N	:		GermanNRC	DLV	51.0

				•	Q278H, A288P	<u>;</u>		
		The same seasons of the same	as programme in the same speciment of the first of the fi			GermanNRC	EFV	47.0
			The state of the s		1	GermanNRC	NVP	321.0
		6893-SCHW	M41L, L210W, T215Y	A98G, K101E, Y181C, G190A	V35I, T39A,	GermanNRC		·
					Q269P		<b>.</b>	
The state of the s		THE STATE SECTION AND ADDRESS				GermanNRC	ł	<u> </u>
			<b></b>			GermanNRC	NVP	283.0
<u>Margot</u> (2002)	Clinical	MM-4346366641	M41L, E44D, M184V, T215Y	A98G, V179I, G190A	K20R, K102Q, D123E, I135M, Q207E, T286A, E297K, I329LI, A360T, V365IV	Virco	DLV	0.3
						Virco	EFV	18.0
and a second control of the second control o						Virco	NVP	121.9
<u>Johnston</u> (2005)	Clinical	71361-1	K65R		V35T, K49R, K122E, A158S, E169D, R211A, V245M	Virologic	DLV	5.9
		<del>,</del>	The state of the second st	-	1	Virologic	EFV	>1500.0
				; ·	1	Virologic	NVP	>893.0
<u>Mo (2005)</u>	Clinical	8242_d660_Virco	K70R,	A98G, K101E, G190A	1135K,	Virco	DLV	192.3

•

				reage observablessammer at the sounds of the sounds.	G196E, H208Y, D237DN, V276T, K281R, T286P, V292I, E297K, A304E, M357T, K366R, A400S			
						Virco	EFV	17.0
			ļ			Virco	NVP	84.5
Rhee (2006)	Clinical	71361-2	K65R	K101E, Y181C,	V35T, K49R, K122E, A158S, E169D, R211A, V245M, K277R, T286A, A288S, E297A	Virologic	DLV	>800.0
and the second						Virologic	EFV	>1500.0
						Virologic	NVP	>893.0
		CA63818	M41L, D67N, T69ATDN, V75L, V118I, L210W, T215Y	A98G, K101E, Y181C, G190A	V60IV, I135T, E203D, Q207D, H208YH, R211K, H221YH, L228HL, V245EKQ, A288S	Virologic		31.0
1	-			ļ		Virologic		400.0
						Virologic	* %	300.0
		SR201325	M41L, T69D, V75M, V118I, L210W, T215Y, K219R	A98G, K101E, Y181C, G190A	V35M, T39A,	Virologic	DLV	7.4

	R211K, L228H, A272P, I293V, I329L			
		Virologic	EFV	1
		Virologic	NVP	>400.0

- ■W ho We Are & How to Contact Us
  ■Pu blications
  ■Ac knowledgements

### The Data

- ■Us er Guide & Database Documents
  ■Da tabase Statistics
  ■HIV Treatment Websites
  ■Ad ditional Resources

A curated public database designed to represent, store, and analyze the divergent forms of data underlying HIV drug resistance.

MONE

GENOTYPE-RX

GENOTYPE-PHENO

GENOTYPE-CLINICAL

MIVED PROGRAM

## **Detailed RT Phenotype Query**

Mutations

G190S, A98G.

References

2

Drugs

NVP, DLV, EFV

Isolates

2

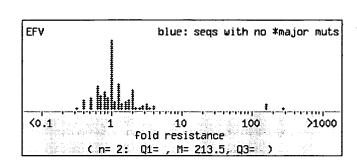
Assay

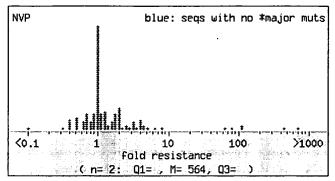
ANY

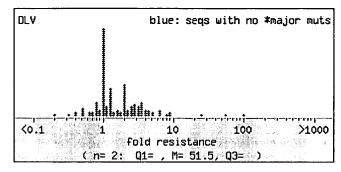
Results

6

WithNoOtherMajorMuts No







Page 1 from Results 1 to Result 6 from Total 6 Phenotype results

Author (yr)	Type	Isolates	NRTI	NNRTI	Other	Method	Drug Fold
Huang	Lab	WH-		A98G,	K102Q,	Virologic	DLV 1.0

(1999)	98G- 190S		G190S	S162C, K277R	The state of the s	e :	i
					Virologic	EFV	>270.0
					Virologic	NVP	>680.0
Beerenwinkel Clinical (2002)	6663- WER	M41L, E44D, D67N, T69D, L74V, V118I, L210W, T215Y	A98G, K101E, K103NK, V179X, Y181C, G190S	Y56X, F87LF, K122E, S162C, R172K, I180X, Q197HQ, T200A, E203K, Q207E, R211K, T216X, K223Q	GermanNRC	DLV	102.0
					GermanNRC	EFV	157.0
					GermanNRC	NVP	448.0

■W ho We Are & How to Contact Us
■Pu blications

■Ac knowledgements

### The Data

- ■Us er Guide & Database Documents
   ■Da tabase Statistics
   ■HIV Treatment Websites

- ■Ad ditional Resources